

CHUKA UNIVERSITY
UNIVERSITY EXAMINATIONS 2019/2020
FIRST SEMESTER EXAMINATION
BIOC 332: BIOCHEMISTRY OF PARASITES

INSTRUCTIONS: *Answer question one and any other two questions*

Questions

Question 1 (Compulsory) (30 marks)

- a) Outline 4 factors which influence distribution of parasites. (4 Marks)

- b) Outline 7 preventive measures that are used to break transmission cycle of parasites. (7 Marks)

- c) Briefly describe 3 common symbiotic relationships that can exist between two organisms. (6 Marks)

- d) Highlight 3 ways by which pathogenic protozoa can spread from one infected person to another. (3 Marks)

- e) Differentiate between trophozoite and cyst. (2 Marks)

- f) Briefly describe the pathogenesis of *Giardia lamblia* (4 Marks)

- g) Briefly describe laboratory diagnosis of *Leishmania donovani*. (4 Marks)

Question 2 (20 marks)

- a) Describe the life cycle and laboratory diagnosis of *Entamoeba histolytica*. (10 Marks)

- b) (i) Name two causative agents of *African trypanosomiasis*. (2 marks)

- (ii) Discuss the clinical features of *African trypanosomiasis*. (8 marks)

Question 3 (20 marks)

- a) Describe, in detail, the life cycle of malaria parasite. (10 Marks)

- b) State 5 medically important species schistosomes and indicate the diseases they cause in man. (10 marks)

Question 4 (20 marks)

- a) Describe life cycle, pathogenicity, clinical features, diagnosis and treatment of *Ascaris Lumbricoides*. (10 marks)
- b) Discuss mode of transmission, pathogenesis and diagnosis of *Wuchereria bancrofti*. (10 marks)